

Subproject	Part	Name	Sequence (5' --> 3')	Template
Ethylenglycol	xylB	xylB-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGAGCAGCGCCATTATCCG	GeneString
		xylB-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTAACGCCAACCTGCATC	
	xylC	xylC-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGACCGCACAGGTTACCTGC	GeneString
		xylC-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTAACCAGACGAACCTCATGC	
	yqhD	yqhD-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGAACAACCTTAATCTGC	<i>E. coli</i> MG1655
		yqhD-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTAGCGGGCGGCTTCG	
	yagE	yagE-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGCCGAGTCCGCG	<i>E. coli</i> MG1655
		yagE-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATCAGCAAAGCTTGAGCTG	
	yjhG	yjhG-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGTCTGTTCGCAATA	<i>E. coli</i> MG1655
		yjhG-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATCAGTTTTTATTCATAAAATCGC	
Itaconic acid	cadA	cadA-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGACCAAACAGAGC	GeneString
		cadA-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTAACCAGCGGAC	
	B0034-cadA	cadA-RBS	AGAGAGGAATTCGCGGCCGCTTCTAGAGAAAGAGGAGAAATACTAGATGACCAAACAGAGC	GeneString
		cadA-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTAACCAGCGGAC	
Xylit	GRE3	GRE3-Prefix (FW)	AGAGGAATTCGCGGCCGCTTCTAGATGAGCAGCCTGGTTACC	GeneString
		GRE3-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTATGCAAAGGTCGG	
	B0034-GRE3	GRE3-RBS	AGAGAGGAATTCGCGGCCGCTTCTAGAGAAAGAGGAGAAATACTAGATGAGCAGCCTGGTTACC	GeneString
		GRE3-Suffix (REV)	CTCTCTGCAGCGGCCGCTACTAGTATTATGCAAAGGTCGG	
In vitro scaffold	HisTag-Scaffold	HisTag_GBD	ATGCACCATCACCATCACCATAGATCTACCAAAGCAGATATTGG	Bba_K1497033
		Prefix_HisTag	AGAGGAATTCGCGGCCGCTTCTAGATGCACCATCACCATCACC	
		VR	ATTACCGCCTTTGAGTGAGC	
	Scaffold-Si4-Tag	VF2	TGCCACCTGACGTCTAAGAA	pSB1C3-HT-Scaffold
		Sc-Si4-REV1	TGTGGATGAGGGCGATGGTGATGAGTCCCACCGCCGGATCCGCTGCCGCTCCC	
		Sc-Si4-REV2	CTCTCTCTGCAGCGGCCGCTACTAGTATTATTACATCGACGGATGTGGATGAGGGCGATGG	
	HisTag-GFP	HisTag_GFP	ATGCACCATCACCATCACCATCGTAAAGGAGAAGAACTT	Bba_E0040
		Prefix_HisTag	AGAGGAATTCGCGGCCGCTTCTAGATGCACCATCACCATCACC	
		VR	ATTACCGCCTTTGAGTGAGC	
	GFP_Si4-Tag	VF2	TGCCACCTGACGTCTAAGAA	pSB1C3-HT-GFP
		GFP_fus_rev	TCCTCTGATCCTCCTGATCCTCCTTTGTATAGTTCATCCATGCC	
		Si4_fus_fw	GGAGGATCAGGAGGATCAGGAGGAGGCGGTGGGACTCATCACCATCG	Bba_K1028000
		VR	ATTACCGCCTTTGAGTGAGC	
	eYFP-PDZlig	VF2	TGCCACCTGACGTCTAAGAA	Bba_E0030
		eYFP_fus_rev	TCCTCTGATCCTCCTGATCCTCCCTTGTACAGCTCGTCCATGCC	
		PDZlig_opt_rev	CTCTCTGCAGCGGCCGCTACTAGTAAACCAGGCTTTCTTTAACACCTCCTCTGATCCTCCTG	
	eYFP-SH3lig	VF2	TGCCACCTGACGTCTAAGAA	
		eYFP_fus_rev	TCCTCTGATCCTCCTGATCCTCCCTTGTACAGCTCGTCCATGCC	
		SH3lig_opt_rev	CTCTCTGCAGCGGCCGCTACTAGTATTAACGACGACGTTTCGGAGGCAGTGACGCGGAGGTCTCCTGATCCTCC	

	eYFP-GBDlig	VF2	TGCCACCTGACGTCTAAGAA		
		eYFP_fus_rev	TCCTCCTGATCCTCCTGATCCTCCCTTGACAGCTCGTCCATGCC		
		GBDlig_opt_1_rev	TTCATCACTGCTATGAATTGCACGGCTACGTTTCTGCATAACATGCATCAGTGCACCAACCAGTCCTCCTGATCCTCC		
		GBDlig_opt_2_rev	CTCTCTGCAGCGGCCGCTACTAGTATTAATCCTCATCTTCATCACCGGCTTGATCTTCACCTTCATCACTGCTATG		
Xylan Degradation	xynA	xynA FW	AGAGGAATTCGCGGCCGCTTCTAGATGTTTAAGTTTAAAAAG	B. subtilis 168	
		xynA REV	CTCTCTGCAGCGGCCGCTACTAGTATTACCACACTGTTACGTTAG		
		xynA_mutFW	CCAGTAGTCTGTGCTAGCCGCAGAGGCGGTTGCCGAAAAC	pSB1C3-xynA	
		xynA_mutREV	TTCGGCAACCGCCTCTGCGGCTAGCACAGACTACTGGC		
	xynA-PDZlig	VF2	TGCCACCTGACGTCTAAGAA		pSB1C3-xynA_mut
		xynA_fus_rev	TCCTCCTGATCCTCCTGATCCTCCCCACACTGTTACGTTAGAAC		
		PDZlig_opt_rev	CTCTCTGCAGCGGCCGCTACTAGTAAACCAGGCTTTCTTTAACACCTCCTCCTGATCCTCCTG		
	aes-SH3lig	VF2	TGCCACCTGACGTCTAAGAA		BBa_K1216002
		aes_fus_rev	GGTCCTCCTGATCCTCCTGATCCTCCAAGCTGAGCGGTAAAGAACTG		
		SH3lig_opt_rev	CTCTCTGCAGCGGCCGCTACTAGTATTAACGACGACGTTTCGGAGGCAGTGCAGGCGGAGGTCTCCTGATCCTCC		
	RuXyn1-GBDlig	VF2	TGCCACCTGACGTCTAAGAA		pSB1C3-Ruxyn1
		RuXyn1_fus_rev	TCCTCCTGATCCTCCTGATCCTCCCTCATCCATGCCTTCGATGG		
		GBDlig_opt_1_rev	TTCATCACTGCTATGAATTGCACGGCTACGTTTCTGCATAACATGCATCAGTGCACCAACCAGTCCTCCTGATCCTCC		
		GBDlig_opt_2_rev	CTCTCTGCAGCGGCCGCTACTAGTATTAATCCTCATCTTCATCACCGGCTTGATCTTCACCTTCATCACTGCTATG		
HIC	HIC	HisTag-HIC	ATGCACCATCACCATCACCAGCTGGGCGCAATCGAAAACGG	GeneString	
		HIC_rev	CTCTCTGCAGCGGCCGCTACTAGTATTATGCGCGGATGCGATCG		
		Prefix_HisTag	AGAGGAATTCGCGGCCGCTTCTAGATGCACCATCACCATCACC		
	B0034-HIC	HisTag-HIC	ATGCACCATCACCATCACCAGCTGGGCGCAATCGAAAACGG		
		HIC_rev	CTCTCTGCAGCGGCCGCTACTAGTATTATGCGCGGATGCGATCG		
		HisTag-RBS	AGAGAGGAATTCGCGGCCGCTTCTAGAGAAAGAGGAGAAATACTAGATGCACCATCACCATCACC		
Safety	cR12mut1_hokD	crR12mut1_for	AGAGGAATTCGCGGCCGCTTCTAGAGTTGACGGCTAGCTCAGTCCTAG	GeneString	
		crR12mut1_rev	AGAGGTACTGCAGCGGCCGCTACTAGTATATAAACGCAGAAAGGCCACCCGA		
	taR12mut1	taR12mut1_for	AGAGGAATTCGCGGCCGCTTCTAGAGACCCAAATCCAGGAGGTGATTG	GeneString	
		taR12mut1_rev	CTCTCTGCAGCGGCCGCTACTAGTATTCGGAGATATATGGTAGTAG		
	cR12mut1_var-reporter	RR_for	AGAGGAATTCGCGGCCGCTTCTAGAGTTGACGG	GeneString	
		RR_rev	CTCTCTGCAGCGGCCGCTACTAGTATATAAACGC		
	GFP_reporter	GFPsite_for	AGAGGGATCCCGTAAAGGAGAAGAAGCTTTT	Bba_E0040	
		GFPsite_rev	AGAGAAGCTTTTATTGTATAGTTCATCCATGC		
lacZsite_for		AGAGGGATCCACCATGATTACGGATTCATGCGC	Bba_I732006		
lacZsite_rev		AGAGAAGCTTTTACTCCAGCCAGCTTCCGG			
Sequencing / Colony PCR screening		VF2	TGCCACCTGACGTCTAAGAA	Various	
		VR	ATTACCGCCTTTGAGTGAGC		